ATENT COOPERATION TREAT

From the INTERNATIONAL SEARCHING AUTHORITY To: NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND RAUSCHENBACH, Kurt P.O. Box 387 THE WRITTEN OPINION OF THE INTERNATIONAL Bedford MA 01730 SEARCHING AUTHORITY, OR THE DECLARATION UNITED STATES OF AMERICA (PCT Rule 44.1) Date of mailing (day/month/year) 20/04/2006 Applicant's or agent's file reference FOR FURTHER ACTION VAR-001CIPPC See paragraphs 1 and 4 below International application No. International filing date (day/month/year) PCT/US2005/008709 16/03/2005 Applicant VARIAN SEMICONDUCTOR EQUIPMENT ASSOCIATES, INC. 1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report. International Bureau of WIPO, 34 chemin des Colombettes Where? Directly to the 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 338.82.70 For more detailed instructions, see the notes on the accompanying sheet, The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made, 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for International publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Authorized officer

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European Patent Office, P.B. 5818 Patentlaan 2

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220	
VAR-001CIPPC	ACTION	as well as, where applicable, item 5 below.	
International application No.	International filing date (day/month/	ear) (Earliest) Priority Date (day/month/year)	
PCT/US2005/008709	16/03/2005	22/03/2004	
Applicant			
VARIAN SEMICONDUCTOR EQUIP	MENT ASSOCIATES, INC.		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searc Insmitted to the International Bureau,	ing Authority and is transmitted to the applicant	
This International Search Report consists	of a total of <u>4</u> shee	s.	
X It is also accompanied by	a copy of each prior art document cite	d in this report.	
Basis of the report			
 With regard to the language, the interpretation is was filed, unterpretation. 	nternational search was carried out o ess otherwise indicated under this iter	the basis of the international application in the	
The international s	earch was carried out on the basis of 23.1(b)).	a translation of the international application furnishe	ed to
b. With regard to any nucleo	tide and/or amino acid sequence d	sclosed in the international application, see Box No.	I.
2. Certain claims were foun	d unsearchable (See Box II).		
3. Unity of invention is lack	ing (see Box III).		
4. With regard to the title,			
X the text is approved as sub	mitted by the applicant.		
the text has been establish	ed by this Authority to read as follows		
5. With regard to the abstract,			
X the text is approved as sub			
may, within one month from	n the date of mailing of this internation	Authority as it appears in Box No. IV. The applicant al search report, submit comments to this Authority.	
6. With regard to the drawings,			
a. the figure of the drawings to be pu	blished with the abstract is Figure No	1	
X as suggested by the	, .		
-	Authority, because the applicant faile		
· —	Authority, because this figure better of published with the abstract.	iai accenzes une miveribult.	

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER H01J37/32 H01J37/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	• US 5 556 501 A (COLLINS ET AL) 17 September 1996 (1996-09-17)	1,2,4, 10-14, 17,18
	column 21, line 44 - line 67 column 21, line 15 - line 23	
Υ	figures 1,2	3,5-9, 16,
		19-21, 23,26,27
Υ	US 2003/201722 A1 (APPLEYARD NICHOLAS JOHN) 30 October 2003 (2003-10-30) paragraph [0062] figures 4,8,9	3,5-7, 19,20
Υ	- US 6 518 190 B1 (LILL THORSTEN ET AL) 11 February 2003 (2003-02-11) column 4, line 24 - line 38	8,9
	-/	

Further documents are tisted in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filling date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
17 March 2006	20/04/2006
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Capostagno, E

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INTERNATIONAL SEARCH REPORT

' rnational Application No , JT/US2005/008709

		, 31/032005/006/09
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
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Y A	US 5 540 824 A (YIN ET AL) 30 July 1996 (1996-07-30) column 3, line 44 - column 4, line 13 figures 2b,2d	16 13,17
Y	• US 6 083 363 A (ASHTIANI ET AL) 4 July 2000 (2000-07-04) column 6, line 48 - column 7, line 46 figures 1,5	21,23, 26,27
Х	EP 0 810 816 A (APPLIED MATERIALS, INC) 3 December 1997 (1997-12-03) column 4, line 44 - column 5, line 24 figures 1,2	1,2,4, 11,12,14

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